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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/604,494		07/25/2003	Rodney C. Hope	716909.26	1493	
27128	7590	07/28/2005	·	EXAMINER		
BLACKWELL SANDERS PEPER MARTIN LLP				RIVELL, JOHN A		
720 OLIVE	STREET				0 - PED - WD - (DED	
SUITE 2400)			ART UNIT	PAPER NUMBER	
ST. LOUIS.	MO 63	101		3753		

DATE MAILED: 07/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			\$					
	Application No.	Applicant(s)						
	10/604,494	HOPE ET AL.	•					
Office Action Summary	Examiner	Art Unit						
	John Rivell	3753						
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence add	ress					
, -	DIVIC CETTO EVOIDE 2 M	MONTH(S) EDOM						
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a . I reply within the statutory minimum of th riod will apply and will expire SIX (6) MO atute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this con ABANDONED (35 U.S.C. § 133).	nmunication.					
Status								
1) Responsive to communication(s) filed on Z	/25/03 (application).							
•	This action is non-final.							
3) Since this application is in condition for allo	wance except for formal ma	tters, prosecution as to the	merits is					
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.						
Disposition of Claims								
4) Claim(s) <u>1-30</u> is/are pending in the applicat	tion.		-					
4a) Of the above claim(s) is/are with								
5) Claim(s) <u>1-6,11-16 and 25-30</u> is/are allowe								
6)⊠ Claim(s) <u>7,9,10,17 and 19-21</u> is/are rejecte	∑ Claim(s) <u>7,9,10,17 and 19-21</u> is/are rejected.							
7) Claim(s) <u>8,18 and 22-24</u> is/are objected to.	☑ Claim(s) 8,18 and 22-24 is/are objected to.							
8) Claim(s) are subject to restriction an	nd/or election requirement.							
Application Papers		•						
9) The specification is objected to by the Exam	niner.	v.						
10) ☐ The drawing(s) filed on 25 July 2003 is/are:	•	ected to by the Examiner.						
Applicant may not request that any objection to								
Replacement drawing sheet(s) including the cor	rection is required if the drawin	g(s) is objected to. See 37 CFF	R 1.121(d).					
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attache	ed Office Action or form PTC	D-152.					
Priority under 35 U.S.C. § 119		•						
12) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:								
1. Certified copies of the priority docum	ents have been received.							
2. Certified copies of the priority docum	ents have been received in	Application No						
3. Copies of the certified copies of the p	priority documents have bee	n received in this National S	Stage					
application from the International Bu	reau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a	list of the certified copies no	t received.						
•								
Attachment(s)								
Notice of References Cited (PTO-892)	• —	Summary (PTO-413)						
 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB 	·	o(s)/Mail Date Informal Patent Application (PTO-	152)					
Paper No(s)/Mail Date 11042003	6) Other:							

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 7, 9, 10, 17, 19, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cunningham (cited by applicant).

The patent to Cunningham, in figure 7, discloses a "self closing valve comprising: a valve body (generally at 36D) having flow passage therethrough; a metal valve seal... having first and second sealing surfaces (at fingers 42D, 43D) disposed within the valve body about a portion of the flow passage; a valve member (34D) mounted within the flow passage for movement between an open position and at least one of at least two closed positions, the valve member having a seating surface (48D) for engagement with at least one of the sealing surfaces of the metal valve seal ring in at least one of the closed positions; a biasing element (spring 36 of figure 1) associated with the valve member for urging the valve member toward the closed positions; and the metal valve seal... being formed... having first and second annular fingers (at fingers 42D, 43D) extending radially inwardly of the flow passage portion to provide first and second sealing surfaces spaced apart along the longitudinal axis of said portion of the flow passage, the first and second sealing surfaces each being coined (as disclosed by

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applicant, this "coining" operation occurs each time the valve closes, forcing the external valve head surface 48D against the seal finger 42D or 43D) to each provide a surface portion for mating with a respective portion of the seating surface for selective sealing engagement therewith when the valve member is in a respective at least one of the closed positions" as recited n claim 7.

Thus the patent to Cunningham discloses all the claimed features with the exception of having the seal elements at fingers 42D, 43D in the form of an "annular ring" element.

The patent to Cunningham, in figures 2 and 3 for example, teaches two distinct embodiments of the valve seal in which the seal is in the form of an "annular ring" at 42 in fig. 2 and 42A in fig. 3, for the purpose of permitting the seal element to be replaced and/or repaired in the event its useful life expires.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in the embodiment of figure 7 of Cunningham, an annular seal element carrying seal "fingers 42D, 43D for the purpose of permitting repair and/or replacement of the seal element in the event its useful life expires as recognized by the embodiments of figures 2 and 3 of Cunningham.

Claims 1-6, 11-16 and 25-30 are allowed.

Claims 8, 18, and 22-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Rivell whose telephone number is (571) 272-4918. The examiner can normally be reached on Mon.-Thur. from 6:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Mancene can be reached on (571) 272-4930. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
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